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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/659,822	09/11/2003	Jason R. Delker	2306	5940
28005	7590	01/03/2006	EXAMINER	
SPRINT 6391 SPRINT PARKWAY KSOPHT0101-Z2100 OVERLAND PARK, KS 66251-2100			VU, MICHAEL T	
			ART UNIT	PAPER NUMBER
			2683	

DATE MAILED: 01/03/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No. 10/659,822	Applicant(s) DELKER ET AL.	
	Examiner Michael Vu	Art Unit 2683	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on ____.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-18 is/are pending in the application.
- 4a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) ____ is/are allowed.
- 6) ☒ Claim(s) 1-18 is/are rejected.
- 7) ☐ Claim(s) ____ is/are objected to.
- 8) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 11 September 2003 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. ____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|---|--|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. ____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date <u>01/15/2005</u> . | 6) <input type="checkbox"/> Other: ____ |

DETAILED ACTION

Claim Rejections - 35 USC § 103

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

2. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

3. Claims 1 - 18 are rejected under 35 U.S.C. 103(a) as being unpatentable over Zimmerman (US 6,745,040) in view of Stillman (6,870,915)

Regarding **claim 1**, Zimmerman teaches a method of managing a plurality of directory numbers for a mobile station (Fig. 1, Abstract), said plurality of directory numbers including at least a first directory number and a second directory number (Abstract, C2, L1-10), said method comprising: associating said first directory number with an identifier code recognized by said mobile station (Abstract, C1, L30-50, C2, L23-

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36), detecting a first request to connect a first incoming call to said first directory number (C1, L53-67 to C2, L1-10), **but is silent on** transmitting a query to a call control system/SCP Service Control point, said query identifying said first directory number, receiving a response to said query, said response including said identifier code; and transmitting over an air interface a first message to said mobile station, said first message including said identifier code to indicate that said first directory number is being called.

However, Stillman teaches the method and systems are provide for storing directory assistance service and directory information, which is including wireline and wireless telephones, pagers, and the like. The directory assistance service includes a large database containing the names, addresses, and directory numbers for a number of telecommunications systems subscribers, a directory number, typically a ten digits number is referred to as a telephone number (see Abstract, Fig. 2, SCP element 42, C2, L42-67, C4, L3-22, C10, L20-41).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Zimmerman, such that transmitting a query to a call control system, said query identifying said first directory number, receiving a response to said query, said response including said identifier code; and transmitting a first message to said mobile station, said first message including said identifier code to indicate that said first directory number is being called, to provide a better service that save the cost and a memory or a power of the mobile device.

Regarding **claim 2**, Zimmerman/Stillman teach the method of claim 1, Stillman further teaches wherein said response further includes an identification of said mobile station (C13, L14-39).

Regarding **claim 3**, Zimmerman/Stillman teach the method of claim 2, comprising: Stillman further teaches said call control system determining said identifier code and said identification of said mobile station based on said first directory number (Abstract, Fig. 2, C10, L20-41).

Regarding **claim 4**, Zimmerman/Stillman teach the method of claim 1, Stillman further teaches comprising: said mobile station providing a user-discernible indication based on said identifier code (Fig. 2, SCP, and Mobile Station Controller element 52 providing ringing signal, C5, L48-67).

Regarding **claim 5**, Zimmerman/Stillman teach the method of claim 1, Stillman further teaches wherein said call control system includes a service control point (SCP). (Fig. 2, SCP, C5, L48-67).

Regarding **claim 6**, Zimmerman/Stillman teach the method of claim 1, Zimmerman further teaches wherein said call control system includes a home location register (Fig. 1, HLR element 180, C3, L53-58).

Regarding **claim 7**, Zimmerman/Stillman teach the method of claim 1, Zimmerman further teaches wherein said first message is an alert message (Fig. #2, C1, L30-50).

Regarding **claim 8**, Zimmerman/Stillman teach the method of claim 1, Stillman further teaches comprising: detecting a second request to connect a second incoming

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call to said second directory number', and in response to said second request transmitting a second message to said mobile station without including said identifier code (C1, L50-67)

Regarding **claim 9**, Zimmerman teaches a system for managing a plurality of directory numbers for a mobile station (Fig. 1, Abstract), said plurality of directory numbers including at least a first directory number and a second directory number (Abstract, C2, L1-10), said system comprising: **but is silent on** a call connection system for connecting calls to said mobile station over an air interface; and a call control system for controlling said call connection system, said call control system storing, externally to said mobile station, an association between said first directory number and an identifier code recognized by said mobile station.

However, Stillman teaches the method and systems are provide for storing directory assistance service and directory information, which is including wireline and wireless telephones, pagers, and the like. The directory assistance service includes a large database containing the names, addresses, and directory numbers for a number of telecommunications systems subscribers, a directory number, typically a ten digits number is referred to as a telephone number (see Abstract, Fig. 2, MSC, SCP, and MS, C2, L42-67, C4, L3-22, SCP, C5, L49-67, C10, L20-41).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Zimmerman, such that a call connection system for connecting calls to said mobile station over an air interface; and a call control system for controlling said call connection system, said call control system storing, externally to

said mobile station, an association between said first directory number and an identifier code recognized by said mobile station, to provide a better service that save the cost and a memory or a power of the mobile device.

Regarding **claim 10**, Zimmerman/Stillman teach in claim 9, Zimmerman further teaches wherein said call connection system includes a mobile switching center (MSC) (Fig. 1, element 170 included HLR element 180).

Regarding **claim 11**, Zimmerman/Stillman teach in claim 10, Stillman further teaches wherein said MSC is provisioned with at least one trigger to query said call control system in response to a request to connect an incoming call to said first directory number (Fig. 2, C4, L34-60, C5, L49-67).

Regarding **claim 12**, Zimmerman/Stillman teach in claim 9, Stillman further teaches wherein said call control system includes a service control point (SCP) (Fig. 2).

Regarding **claim 13**, Zimmerman/Stillman teach in claim 9, Zimmerman further teaches wherein said call control system includes a home location register (HLR) (Fig. #1, HLR #180, C3, L53-58).

Regarding **claim 14**, Zimmerman teaches a method of managing a plurality of directory numbers for a mobile station (Fig. 1, Abstract), said plurality of directory numbers including at least a first directory number and a second directory number (Abstract, C2, L1-10), said method comprising: **but is silent on** associating said first directory number with an identifier code used by said mobile station to indicate call origination from said first directory number; detecting a request to originate a call from said mobile station to a called party, said request including said identifier code;

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transmitting a query to a call control system, said query identifying said identifier code;
receiving a response to said query, said response including said first directory number;
and routing said call to said called party, such that said first directory number is
identified as a calling party number.

However, Stillman teaches the method and systems are provide for storing
directory assistance service and directory information, which is including wireline and
wireless telephones, pagers, and route the call to called party. The directory assistance
service includes a large database containing the names, addresses, and directory
numbers for a number of telecommunications systems subscribers, a directory number,
typically a ten digits number is referred to as a telephone number (see Abstract, Fig. 2,
MSC, SCP, and MS, C2, L42-67, C4, L3-22, SCP, C5, L49-67, C10, L20-41).

Therefore, it would have been obvious to one of ordinary skill in the art at the
time the invention was made to modify Zimmerman, such that associating said first
directory number with an identifier code used by said mobile station to indicate call
origination from said first directory number; detecting a request to originate a call from
said mobile station to a called party, said request including said identifier code;
transmitting a query to a call control system, said query identifying said identifier code;
receiving a response to said query, said response including said first directory number;
and routing said call to said called party, such that said first directory number is
identified as a calling party number, to provide a better service that save the cost and a
memory or a power of the mobile device.

Regarding **claim 15**, Zimmerman/Stillman teaches in claim 14, Stillman further teaches comprising: a user selecting said first directory number to use for said call to said called party (Abstract and Summary of the Invention).

Regarding **claim 16**, Zimmerman/Stillman teaches in claim 15, Stillman further teaches wherein a user selecting said first directory number comprises: said user dialing a digit string associated with said first directory number (Abstract, C1, L13-26).

Regarding **claim 17**, Zimmerman/Stillman teach the method of claim 14, Stillman further teaches wherein said call control system includes a service control point (SCP) (Fig. 2, SCP/ Service Control Point 42).

Regarding **claim 18**, Zimmerman/Stillman the method of claim 14, Zimmerman further teaches wherein said call control system includes a home location register (HLR) (Fig. #1, HLR #180, C3, L53-58). As examiner noted that HLR is located in MSC area.

Conclusion

4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Zimmerman US 2002/0198007

Cameron US 5,983,095

Chow US 6,785,560

Ghafoor US 6,618,587

Kamimura 2002/0094806

Uriya US 6,574,489

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5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Michael Vu whose telephone number is (571) 272-8131.

The examiner can normally be reached on 8:00am - 6:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, William Trost can be reached on 571-272-7872. The fax phone number for the organization where this application or proceeding is assigned is 571-272-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



Michael T. Vu



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